APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/045,698	01/10/2002	Yoshifumi Tanimoto	81800.0177	9845

26021 7590 07/13/2006		EXAMINER
HOGAN & HARTSON L.L.P. 500 S. GRAND AVENUE SUITE 1900 LOS ANGELES, CA 90071-2611		BURGESS, BARBARA N

ART UNIT	PAPER NUMBER
2157	

DATE MAILED: 07/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/045,698	TANIMOTO, YOSHIFUMI
	Examiner	Art Unit	
	Barbara N. Burgess	2157	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *may 17, 2006*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-4 and 8-20* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-4 and 8-20* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

This Office Action is in response to Request for Continuation Examination filed may 17,

2006. Claims 1-4 and 8-20 are presented for examination.

Claim Rejections - 35 USC § 103

1.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

2.   Claims 1-4, 8-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Zakurdaev et al. (hereinafter "Zak", US Patent Publication 2002/0073182 A1) in view of

Gong (US Patent Publication 2001/0044819).

As per claims 1, 8, Zak discloses a relay server comprising:

- Communicating means and device for communicating with a plurality of

network devices (paragraphs 0032-0033);

- Connection information holding means and device for holding connection

information (paragraph 0044-0046);

- Wherein the communicating means and device carries out communication

with the network devices in accordance with the connection information, and

relays data between the network devices in accordance with connection

demand information generated from one of the plurality of network devices (paragraphs 0032-0033);

- Communicating with a plurality of network devices, including a first network device in a first LAN and second network device in a second LAN; (paragraphs 0032-0033)

- A first connection between the relay server and the first network device and a second connection between the relay server and the second network device (paragraph 0046);

- Communication means carried between the first and second network devices busing the first and second connections, and relays between the first and second network devices in accordance with connection demand information generated from the first and second network devices (paragraphs 0032-0033).

However, Zak does not explicitly disclose:

- <u>TCP/IP connections that are established and held in response to login demands from the plurality of network devices</u>

However, in an analogous art, Gong teaches a relay server having connection between the remote server, which is the web server and client having web browser and applet software for Internet access (paragraphs [0010-0011, 0016]).

Therefore, one of ordinary skill in the art at the time the invention was made would have found it obvious to incorporate or implement Gongs relay server in Zak's system in order to that the java applets receive the necessary downloads from remote servers.

As per claim 2, Zak discloses a communication system comprising:

- a plurality of network devices (paragraphs 0032-0033);

- A relay server connected to the plurality of network devices via a

network, wherein a first network device of the plurality of network devices

establishes a communication path with the relay server, and generates a

connection demand for communication with a second network device of the

plurality of network devices to the relay sever when communicating with the

second network device (paragraph 0046);

- the relay server relays the communication between the first and

Second network devices by using a communication path established in

advance in accordance with the connection demand from the first network

device (paragraphs 0032-0033).

- Communicating with a plurality of network devices, including a first network

  device in a first LAN and second network device in a second LAN (paragraphs

  0032-0033);

- A first connection between the relay server and the first network device and a

  second connection between the relay server and the second network device

  (paragraph 0046);

- Communication means carried between the first and second network devices

  busing the first and second connections, and relays between the first and second

network devices in accordance with connection demand information generated

from the first and second network devices (paragraphs 0032-0033).

However, Zak does not explicitly disclose:

- TCP/IP connections.

However, in an analogous art, Gong teaches a relay server having connection

between the remote server, which is the web server and client having web browser

and applet software for Internet access (paragraphs [0010-0011, 0016]).

Therefore, one of ordinary skill in the art at the time the invention was made

would have found it obvious to incorporate or implement Gongs relay server in Zak's

system in order to that the java applets receive the necessary downloads from remote

servers.

As per claims 3, Zak discloses the communication system according to claim 2 wherein

connection to the first network device from outside the LAN is limited (paragraphs 0032-

0033).

As per claim 4, Zak disclose the communication system according to claim 2 wherein

the first network device is connected to the relay server via a gateway device having an

address converting function (paragraph 0013).

As per claim 9, Zak discloses the relay server according to claim 8, wherein a

connection to the first network device from outside the LAN is limited (paragraphs 0032-0033).

As per claim 10, Zak discloses the relay server according to claim 8, wherein a first network device of the plurality of network devices is connected to the relay sever via a gateway device having an address converting function (paragraph 0013).

As per claim 11, Zak discloses the relay server according to claim 8, wherein the relay server is connected to the Internet (paragraphs 0032-0034).

As per claim 12, Zak discloses the relay server according to claim 8, wherein the relay server includes a global IP address (paragraphs 0035-0037 and 0046).

As per claim 13, Zak discloses the relay server according to claim 8, wherein the connection information includes a user ID and a password (paragraph 0027).

As per claim 14, Kihl discloses the relay server according to claim 1, wherein the relay server is connected to the Internet. (paragraphs 0032-0034).

As per claim 15, Zak discloses the relay server according to claim 1, wherein

the relay server includes a global IP address (column 3, lines 5-7).

As per claim 16, Zak discloses the relay server according to claim 1, wherein the connection information includes a user ID and a password (paragraphs 0035-0037 and 0046).

As per claim 17, Zak discloses a method for communicating between a plurality of network devices and a relay server comprising:

- Establishing a communication path between each of a plurality of network devices and a relay server (paragraphs 0032-0033);

- Demanding a connection from one of the plurality of network devices to at least one other network device of the plurality of network devices using the relay server (paragraph 0046);

- Relaying a communication between the one network device and the at least one other network device using the held communication path between the one network device and the relay server and the held communication path between the at least one other network device and the relay server (paragraphs 0032-0033).

However, Zak does not explicitly disclose:

- <u>TCP/IP connections that are established and held in response to login demands from the plurality of network devices</u>

However, in an analogous art, Gong teaches a relay server having connection

between the remote server, which is the web server and client having web browser

and applet software for Internet access (paragraphs [0010-0011, 0016]).

Therefore, one of ordinary skill in the art at the time the invention was made

would have found it obvious to incorporate or implement Gongs relay server in Zak's

system in order to that the java applets receive the necessary downloads from remote

servers.

A per claim 18, Zak discloses the communication method according to claim

17 further comprising limiting the connection to the network devices from an

outer network (paragraphs 0032-0033).

As per claim 19, Zak discloses the communication method according to claim

17 further comprising connecting the network devices to the relay server via

a gateway device having an address converting function (paragraph [0013]).

As per claim 20, Zak discloses the communication method according to claim

17 further comprising connecting the relay server to the Internet (paragraphs 0032-

0034).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Barbara N. Burgess whose telephone number is (571)

272-3996. The examiner can normally be reached on M-F (8:00am-4:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ario Ettinene can be reached on (571) 272-4001. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Barbara N Burgess
Examiner
Art Unit 2157

July 10, 2006

ARIO ETIENNE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100